

Page 1, line 1, before the paragraph beginning "The present invention..."

insert the following heading at the left-hand margin:

--FIELD OF THE INVENTION--;

Delete the paragraph beginning on Page 1, line 3, with "The present invention..." and substitute the following new paragraph:

A3  
--The present invention relates to a method and device for the scalable monitoring of a running computer system. The computer system is constituted by a set of computer equipment units called distributed resources, each being interconnected to the others through a communication network.--

Page 1, line 6, before the paragraph beginning "Large companies have..."

insert the following heading at the left-hand margin:

--DESCRIPTION OF RELATED ART--;

Delete the paragraph beginning on Page 1, line 23, with "Traditionally, this monitoring..." and substitute the following new paragraph:

A4  
--Traditionally, this monitoring is performed by the manager, which centralizes the acquisition of the measurements and the calculation of the indicators. The information exchanged between the manager and the resources flows through a wide area network, also called a "WAN." However, the cost of bandwidth in the WAN is not adapted to monitoring. Likewise, the exchanges of information involved in centralized monitoring generate heavy usage of the WAN. This problem is explained by the fact that the bandwidth of the WAN is too small for the ever-increasing amount of information that must pass between the managers and their equipment. - -

*N.E.??  
Unclear*

Page 1, line 30, after the sentence ending "and their equipment..." in the inserted paragraph and insert a paragraph indentation and the following heading at the left-hand margin:

--SUMMARY OF THE INVENTION--;

*N.E.??  
Unclear*

Insert the following new paragraph on Page 1, line 31 after the heading "SUMMARY OF THE INVENTION":

-- The object of the present invention is to eliminate the drawbacks of the prior art by offering a scalable monitoring method that makes it easy to reorganize the architecture of the computer system when it changes.--

Delete the paragraph beginning on Page 2, line 7, with " - a step for breaking . . ." and substitute the following new paragraph:

-- - a step for breaking down the monitored domain or organizing a plurality of into monitored subdomains (d1, d2) comprising a predetermined maximum number of resources, (A1, A2, B1, B2)--

Page 5, line 1, after the sentence beginning "Other characteristics and..." insert a paragraph indentation and the following heading at the left-hand margin:

-- BRIEF DESCRIPTION OF THE DRAWINGS--;

Delete the paragraph beginning on Page 5, line 7, with " -Fig. 2 represents . . ." and substitute the following new paragraph:

-- - Fig. 2 represents an exemplary architecture of the links between monitoring agents according to the method of the invention; and--

Delete the paragraph beginning on Page 5, line 8, with " - Fig. 3 represents . . ." and substitute the following new paragraph:

A8

-- - Fig. 3 represents the process for deploying a monitoring method according

to the invention. --

Page 5, line 9, before the sentence beginning "As explained above..." insert a

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paragraph indentation and the following heading at the left-hand margin:

--DESCRIPTION OF THE INVENTIVE EMBODIMENTS--;

Delete the paragraph beginning on Page 5, line 9, with " As explained above . .  
." and substitute with the following new paragraph:

--As explained above, a computer system (1) comprises at least one local area  
network (LAN) (10, 20) that communicates with a central system (2) or manager  
through a wide area network (3). Each local area network (10, 20) comprises at least  
one unit of computer equipment (101, 102, 201, 202) called a resource.--

Delete the paragraph beginning on Page 7, line 27, with " Each indicator agent  
... " has been deleted, substitute with the following new paragraph:

--Each indicator agent manages a so-called subscriber list on which the names  
of other indicator agents according to the invention may be written. This list is stored  
in the storage means or memory of the computer equipment unit associated with the  
indicator agent, for example in the form of a table (1010, 2010). An indicator agent  $A_1$   
is written on this list by sending a specific so-called subscription notification  
"Subscribe ( $id(A_1)$  Management Information ( $A_1$ ))" to another indicator agent  $B_1$ ,  
which calculates the indicator ( $I_{B1}$ ). This notification includes as parameters a piece of  
so-called management information that allows the sending agent to create an  
association between a propagation of a value modification and the other indicator  
agent ( $B_1$ ), and the identifier  $id(A_1)$ . Upon receiving a subscription notification, the  
destination agent ( $B_1$ ) processes the notification by writing into the subscriber table  
(2010) the identifier ( $Id_{A1}$ ) of the sending agent as well as the management

information (Management Information ( $A_I$ )) on the list. This list is consulted by the indicator agent ( $B_I$ ) that manages it, after the evaluation of the indicator ( $I_{B_I}$ ) by the agent ( $B_I$ ). If the new value of the indicator is different from the value previously evaluated and stored by the agent, then the agent sends each agent written on the subscriber list (2010) and identified by the parameter ( $id(A_I)$ ) a value change notification (ValueChanged) comprising the new value ( $Val(I_{B_I})$ ) of the indicator ( $I_{B_I}$ ). To do this, after the evaluation of the indicator ( $I_{B_I}$ ), a comparison module of the indicator agent ( $B_I$ ) compares the new value of the indicator ( $Val(I_{B_I})$ ) to the value previously calculated ( $Valp(I_{B_I})$ ) and stored. If the two values are different, the comparison module activates a procedure for sending the value change notification (ValueChanged) to all of the agents, for example A, written on the subscriber list (2010) then records the new value of the indicator in the storage means of its computer equipment unit. The value change notification comprises as parameters the new value of the indicator ( $Val(I_{B_I})$ ) and the management information (Management Information ( $A_I$ )) of the target agent, so that the target agent can assign the value received to the indicator awaited.--

Delete the paragraph beginning on Page 18, line 23, with "It should be clear . . . and substitute the following new paragraph:

-- It should be clear to those skilled in the art that the present invention allows for embodiments in many other specific forms without going beyond the scope of application of the invention as claimed. Consequently, the present embodiments should be considered as examples which can be modified within the range defined by the true spirit and scope of the invention as set forth in the attached claims to which resort should be made for a full and complete understanding of the full scope of the invention.--